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### NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

03/15/2004

Terry L. Miller 24832 Via San Fernando Mission Viejo, CA 92692 EXAMINER

ZERR, JOHN W

ART UNIT

PAPER NUMBER

3644

DATE MAILED: 03/15/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/695,013	10/28/2003	Leon Styles	2003-034	4248

TITLE OF INVENTION: ELECTROPNEUMATIC PAINTBALL GUN, METHOD OF MAKING AND OPERATING, AND RETROFIT KIT ASSEMBLY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665	\$300	\$965	06/15/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
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- A. Pay TOTAL FEE(S) DUE shown above, or
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- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

03/15/2004

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(703) 746-4000 or <u>Fax</u>

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CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

Terry L. Miller 24832 Via San Fernando Mission Viejo, CA 92692

7590

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission I hereby certify that this Fec(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

and state to the obtained on the control of the con	
	(Depositor's name)
	(Signature)
	(Date)

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nonprovisional	YES	\$665		\$300	\$965	06/15/2004
EXA	MINER	ART UN	IT	CLASS-SUBCLASS	]	
ZERR, JOHN W		3644 124-077000		_		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or 2			
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.						
□ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.				nd the names of up to 2 regis or agents. If no name is listed inted.		

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee categor	ry or categories (will not be printed on the patent);	u individual	☐ corporation or other private group of	entity 🕒 governmen
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			
☐ Issue Fee	☐ A check in the ame	ount of the fee(s)	is enclosed.	
☐ Publication Fee	☐ Payment by credit	card. Form PTO-	2038 is attached.	
☐ Advance Order - # of Copies	☐ The Director is h Deposit Account Nu	creby authorized	by charge the required fee(s), or credi	t any overpayment, tof this form).
Director for Patents is requested to apply the	Issue Fee and Publication Fee (if any) or to re-apply	any previously p	paid issue fee to the application identifie	d above.
(Authorized Signature)	(Date)		· · · · · · · · · · · · · · · · · · ·	-
NOTE; The Issue Fee and Publication Fe other than the applicant; a registered attainterest as shown by the records of the Uni	te (if required) will not be accepted from anyone orney or agent; or the assignee or other party in ted States Patent and Trademark Office.			
obtain or retain a benefit by the public wapplication. Confidentiality is governed by estimated to take 12 minutes to complete, completed application form to the USPT case. Any comments on the amount of suggestions for reducing this burden, sho Patent and Trademark Office. U.S. D	by 37 CFR 1.311. The information is required to hich is to file (and by the USPTO to process) an 35 U.S.C. 122 and 37 CFR 1.14. This collection is including gathering, preparing, and submitting the D. Time will vary depending upon the individual time you require to complete this form and/or lid be sent to the Chief Information Officer, U.S. epartment of Commerce, Alexandria, Virginia & COMPLETED FORMS TO THIS ADDRESS. candria Virginia 2313-1450.			

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#### UNITED STATES PATENT AND TRADEMARK OFFICE

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Terry L. Miller 24832 Via San Ferr	nando		ZERR, J	OHN W
Mission Viejo, CA			ART UNIT	PAPER NUMBER
•			3644	
			DATE MAILED: 03/15/200	1

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

1	Application No.	Applicant(s)	
	10/695,013	STYLES, LEON	
Notice of Allowability	Examiner	Art Unit	_
	John W. Zerr	3644	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) of NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT THE OFFICE OF THE NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT THE OFFICE OF THE NOTICE OF THE NOTIC	OR REMAINS) CLOSED in other appropriate commes of the state of the sta	n this application. If not included unication will be mailed in due course. THIS	 /e
1. This communication is responsive to <u>Application filed on 28</u>	October 2003.		
2. The allowed claim(s) is/are <u>1-6</u> .			
3. The drawings filed on 28 October 2003 are accepted by the	Examiner.		
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority und</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> </ul>		or (f).	
2. Certified copies of the priority documents have		on No	
3. Copies of the certified copies of the priority doc	uments have been receive	d in this national stage application from the	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMETHIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements	
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives	ted. Note the attached EX s reason(s) why the oath o	AMINER'S AMENDMENT or NOTICE OF redeclaration is deficient.	
6. $\square$ CORRECTED DRAWINGS ( as "replacement sheets") must	be submitted.		
(a) ☐ including changes required by the Notice of Draftsperso	on's Patent Drawing Review	w ( PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the			
7. DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F			
		-	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 🗆 Notice of In	formal Patent Application (PTO-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413),	
<u> </u>		/Mail Date Amendment/Comment	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date			
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowance	
of Biological Material	9. 🗆 Other	harles T. JORDAN	
	(۱۹۳۸	HAMLES I. JUNUAN	
		VISORY PATENT EXAMINER	
ILS Patent and Trademark Office	TECI	IN CONTER 3800	

Application/Control Number: 10/695,013

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## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Terry L. Miller on 10 March 2004.

The application has been amended as follows:

The numbering of claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not).

Misnumbered claims 5-7 been renumbered 4-6.

In Claim 5 line 1 "programmable controller" has been replaced with ---control system---.

In Claim 6 line 1 "programmable controller" has been replaced with ---control system---.

2. The following is an examiner's statement of reasons for allowance: the prior art does not discloses a paintball gun comprising, in addition to other features a trigger that includes a pair of oppositely extending wings, the trigger disposed on a pivot intermediate of the wings such that the trigger has two firing positions and a neutral position intermediate the firing positions, with each of the firing positions corresponding to opposing rocking directions of the trigger and a means to effect a firing action of the gun in response to rocking of the trigger or on the other

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hand an electrical circuit cooperating with a trigger and a solenoid to effect a firing action in response to a trigger movement and a pair of switches that alternate in operation with one another to provide input to the electrical circuit to effect a firing action. The prior art does disclose several devices that utilize a trigger to fire a paintball and that utilize an electric circuit and solenoid that fire a paintball in response to movement of a trigger. However none of these device comprise a trigger that rocks in two directions about a central pivot such that rocking in either direction will initiate a firing action of the gun, nor do these devices comprise an electric circuit that is activated to initiate a firing action of the gun in response to actuation of one of a pair of switches that alternate with one another in operation. Specific examples of the current state of the art mentioned above can be found in USPT 6,343,599 to Perrone and USPT 6,349,711 to Perry et al.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Doyle (USPT 3,273,553) discloses an electromagnetically operated gun comprising a circuit, trigger and switch. Fujimoto (USPT 6,561,176) discloses a paintball gun comprising a bolt assembly actuated by a pneumatic ram. Gardner (USPT 6,644,296) discloses a dynamic paintball gun control comprising a circuit board and sensor. Juan (USPT 6,360,736) discloses an air gun firing system comprising an electric circuit and solenoid. McKendrick (USPT 6,532,949)

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discloses a paint ball gun kit assembly comprising electronically actuated bolt and hammer assemblies. Moritz (USPT 6,637,420) discloses a closed bolt assembly for a paintball marker gun comprising a bolt actuation assembly. Perrone (USPT 6,343,599) discloses a paintball gun with pulse valve firing mechanism comprising an electric circuit, solenoid, trigger and switch. Perrone (US 2001/0042543) discloses an electrically operated paintball gun having hammer and bolt mechanism comprising an electric circuit, solenoid, trigger and switch. Perry (USPT 6,349,711) discloses a low pressure electrically operated pneumatic paintball gun comprising an electric circuit, solenoid, trigger and switch. Rice (USPT 6,138,656) discloses a paint ball gun comprising an electric circuit, solenoid, trigger and switch. Taylor (USPT 6,694,963) discloses a touch trigger for electronic paintball gun that operates with a switch to actuate an electric circuit and solenoid. Wolff (USPT 4,009,536) discloses a trigger mechanism for firearms comprising a trigger, switch, electric circuit and solenoid.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John W. Zerr whose telephone number is (703) 306-0153. The examiner can normally be reached on M-Th. 8:00am-5:30pm, F 8:00am-4:30pm, alt. F off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles T. Jordan can be reached on (703) 306-4159. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JWZ 3/10/04 CHARLES T. JORDAN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600